

# **Advanced Aviation Forward Area Refueling System**

The AAFARS is a lightweight, modular, air-emplaced refueling system for use when aircraft refueling sites are inaccessible by ground transport or urgency of the situation requires rapid emplacement and/or lateral movement of forward refueling sites. Provides filtered fuel at 55 gallons per minute (GPM) at four fueling points simultaneously or 90 GPM at one fueling point. This system can be set-up in 20 minutes by four soldiers in MOPP IV and cold weather clothing.

The AAFARS M100A1 shall differ from the previously fielded model M100 by including: fuel drums, drum repair kits, drum towing yoke, containment berms, fuel test kit, fuel spill kit, TRICON containers for shipment/storage, NATO adapters, NATO power cable, special tool kit and reusable component containers.

# System Includes

- Pump, engine, accessory and filter separator modules
- Auxiliary pump assembly (for defueling)
- Four nozzle kits (containing D-1, CCR, and open port)
- Discharge hoses and fittings
- Suction hoses
- Drum fittings and adapter kits
- Grounding rods
- Fire extinguishers
- Component transport bags
- \*Additional Authorization List (AAL) item: Collapsible Fabric Drums



# **Operational Concept**

Aviation Refueling System:

- Provide rapid refueling to combat aircraft on the battlefield
- Simultaneously refuel four-aircraft 100 feet apart at 55 GPM
- Modular configuration; 4-soldier lift and carry

### **Contact Information**

#### **PM PAWS**

www.tacom.army.mil/dsa/pmtaws/pm\_paws COM: (586) 574-4200 DSN: 786-4200 FAX: (586) 574-3988

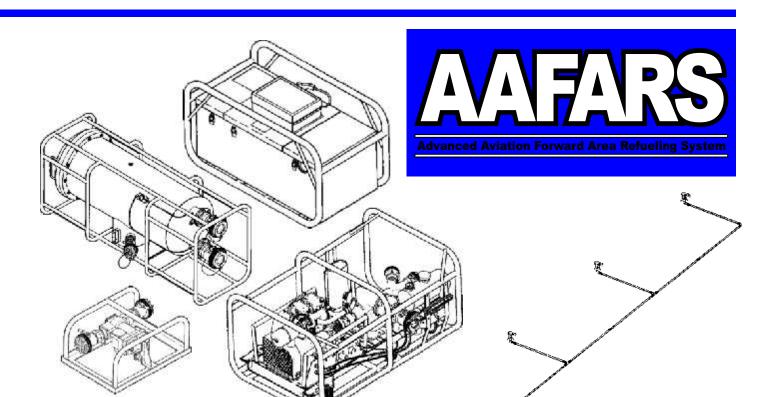
#### **PAWS Help Line**

pawshelp@tacom.army.mil COM: (586) 574-4143 DSN: 786-4143

#### **QUARTERMASTER**

www.quartermaster.army.mil





LIN	NSN	SSN	BOIP
F42611	4930-01-380-4856	R21800	Q036AA

<sup>\*</sup>Readiness reportable IAWAR 700-138 (Action to re-designate as "Reportable - Yes" has been initiated.)

# **Transportability**

#### Vehicle

- HMMWV with trailer (cargo models only)
- 5-ton cargo, standard bed, w/o dropsides

## Fixed wing

- C-5, C-17, C-130, and C-141 per MIL-HDBK-1791
- Low velocity air drop (LVAD) per MIL-STD-814

### Rotary wing

- 2 each UH-1 (M100 only)
- UH-60 or CH-47 internal and external (sling or EAT)

# **Environmental Conditions**

Storage -28°F to 160°F

Operation -25°F to 120°F

# **Performance**

Refueling rate (simultaneous 4-point)	. Minimum 55 GPM	
Refueling rate (single-point)		
Set-up		
Reliability		
Maintainability (M100)		
Maintainability (M100A1)		

# **Dimensions**

•	Accessory	moc	lul	e
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- Engine module
- Filter separator
- Pump module

- 40 L x 22 W x 22 H ft 156 lb
- 24 L x 22 W x 19 H ft 166 lb
- 55 L x 20 W x 24 H ft 147 lb
- 56 L x 36 W x 28 H ft 170 lb